## What Is Claimed Is:

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1. A portable telephone radio set with an interference detection function to which a terminal equipment can be externally connected to effect data communication therewith, comprising:

a warning section for warning radio wave interference; and

a control circuit section for detecting interference of radio waves and controlling said warning section;

- said control circuit section reporting, when said control circuit section detects a radio wave interference fault, contents of the fault to said warning section so that said warning section may give a warning of radio wave interference in a predetermined form based on at least one of visibility and audibility.
  - 2. A portable telephone radio set with an interference detection function as claimed in claim 1, wherein said control circuit section detects a radio wave interference fault in the course of a selection operation of a standby channel from that at least one of loss of frame synchronization, deterioration in bit error rate, unfavorable reception of broadcast information and interruption of radio waves occurs in either one of conditions of out-of-zone indication and abandonment of the pertaining channel.
- 3. A portable telephone radio set with an interference detection function as claimed in claim 1, wherein said control

circuit section detects a radio wave interference fault in the course of a zone switching operation which is caused by the presence of a channel having a higher reception level than that of the channel being waited from that at least one of loss of frame synchronization, deterioration in bit error rate, unfavorable reception of broadcast information and interruption of radio waves occurs in a condition of abandonment of the pertaining channel.

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- 4. A portable telephone radio set with an interference detection function as claimed in claim 1, wherein said control circuit section detects a radio wave interference fault during communication from that a level value detected when the level of each of perch channels other than a peripheral perch channel designated from a base station is measured is higher than a predetermined threshold value.
  - 5. A portable telephone radio set with an interference detection function as claimed in claim 1, wherein said control circuit section detects a radio wave interference fault during communication from that, when the channel is switched to a channel of a level lower than the level of the cannel which has been used for communication till then, it is a cause of the channel switching that at least one of loss of frame synchronization, deterioration in bit error rate, and interruption of radio waves occurs.
- 6. A portable telephone radio set with an interference detection function as claimed in claim 1, wherein the

predetermined form in which the radio wave interference warning is displayed includes the abandoned channel number.

7. A portable telephone radio set with an interference detection function as claimed in claim 1, wherein the predetermined form in which the radio wave interference warning is displayed includes the number of occurrences of retransmission per unit time measured during the communication.

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8. A portable telephone radio set with an interference detection function as claimed in claim 1, wherein the predetermined form in which the radio wave interference warning is displayed includes a rate of occurrences of retransmission per unit data measured during the communication.